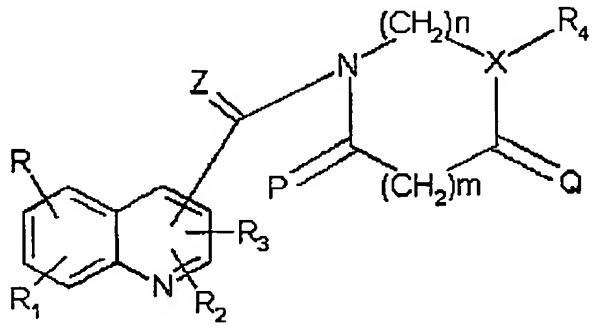
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A quinoline derivatives according to the formula I



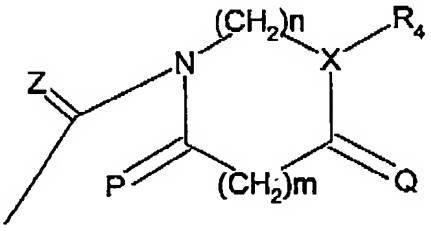
(1)

in which

R, R_1, R_2, R_3 can be attached to any of the quinoline carbon atoms C_2 to C_8, are the same or different and independently of one another denote hydrogen, straight-chain or branched C_{1-8} alkyl, hydroxyl, C_{3-7} cycloalkyl, straight-chain or branched C_{1-8} alkylcarbonyl, straight-chain or branched C_{1-8} alkoxy, halogen, aryl-C_{1-8} alkoxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, C_{1-8} alkoxycarbonylamino, C_{1-6} alkoxycarbonylamino-C_{1-8} alkyl, cyano, straight-chain or branched cyano-(C_1-C_6)-alkyl, carboxyl, C_{1-8} alkoxycarbonyl, C_{1-4} alkyl which is substituted by one or more fluorine atoms, carboxy-C_{1-8} alkyl or C_{1-8} alkoxycarbonyl-C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, straight-chain or branched cyano-C_{1-6} alkyl, aryl, where the aryl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of halogen, straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, carboxyl, straight-chain or branched C_{1-8} alkoxycarbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched C_{1-8} alkoxy, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, cyano,

straight-chain or branched cyano-C_{1-6} alkyl, where R and R_1 or R_2 and R_3 can form a fused aromatic 6-membered ring with the quinoline ring forming an acridine ring which can be substituted at any C atom ring position by the radicals R, R_1, R_2 and R_3 having the meanings mentioned above;

Z is oxygen or sulfur, where the radical



substituted on the quinoline heterocycle can be attached to C atoms C_{2-8} of the quinoline ring;

P, Q independently of one another represent oxygen or two hydrogen atoms;

X is nitrogen;

n,m are independently of one another a cardinal number between 0 and 3, with the proviso that the sum of n and m is 3 to 6;

R_4 is a straight-chain or branched C_{1-20} alkyl, alkenyl or alkynyl~~radical which can be saturated or unsaturated, with one to three double and/or triple bonds, and~~ which can be unsubstituted or can optionally be substituted at the same or different C atoms by one, two or more aryl, heteroaryl, halogen, cyano, C=NH (NH_2), C_{1-6} alkoxycarbonylamino, C_{1-6} alkoxy, amino, mono-C_{1-4} alkylamino or di-C_{1-4} alkylamino; C_{1-4} alkoxy carbonyl, a C_{6-14} aryl radical, C_{6-14} aryl-C_{1-4} alkyl radical, or ~~a a~~ C_{2-10} heteroaryl or C_{2-10} heteroaryl-C_{1-4} alkyl radical which contains one or more heteroatoms N, O and S, where the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and where the C_{6-14} aryl or C_{2-10} heteroaryl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, halogen, cyano, C_{1-6} alkoxycarbonylamino, C_{1-6} alkoxy, carboxyl, C_{1-8} alkoxycarbonyl, or straight-chain or branched C_{1-6} alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched C_{1-8} alkoxy, where adjacent oxygen atoms may also be linked by C_{1-2} alkylene groups, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, or aryl, which can be unsubstituted or mono- or polysubstituted

by the same or different substituents from the group of straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, carboxyl, straight-chain or branched C_{1-8} alkoxycarbonyl, trifluoromethyl, hydroxyl, straight-chain or branched C_{1-8} alkoxy, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, cyano, straight-chain or branched cyano-C_{1-6} alkyl;

and their structural isomers and stereoisomers, particularly tautomers, diastereomers and enantiomers, and their pharmaceutically acceptable salts.

2. (Currently Amended) The quinoline derivative of claim 1, wherein in R, R_1, R_2, and R_3, said C_{1-8} alkylcarbonyl is acetyl, said C_{1-8} alkoxy is benzyloxy or phenylethoxy, said C_{1-4} alkyl which is substituted by one or more fluorine atoms is~~said fluorine atoms are~~ trifluoromethyl, said C_{2-6} alkenyl is allyl, said C_{2-6} alkynyl is ethynyl or propargyl, said cyano-C_{1-6} alkyl is cyanomethyl, said C_{1-8} alkoxy- carbonyl is tert-butoxycarbonyl, and said C_{1-8} alkoxy is methoxy or ethoxy, and in R_4 said C_{1-6} alkyl which is substituted by one or more fluorine atoms is~~said fluorine atoms are~~ trifluoromethyl, said C_{1-8} alkoxy is methoxy or ethoxy, and said C_{1-2} alkylene group is a methylene group.

3. (Currently Amended) The quinoline derivative of formula 1 of claim 1, wherein R, R_1, R_2, R_3, X, Z, P, Q, n and m have the meanings given in claim 1

R_4 is a straight-chain or branched C_{1-20} alkyl, alkenyl or alkynyl~~radical which can be saturated or unsaturated, with one to three double and/or triple bonds, and~~ which can be unsubstituted or optionally substituted on the same or different Catoms by one, two or more aryl, heteroaryl, halogen, C_{1-6} alkoxy, amino, mono- C_{1-4} alkylamino or di-C_{1-4} alkylamino;

a phenyl ring or a naphthyl ring, each of which can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, halogen, cyano,C_{1-6} alkoxycarbonylamino, C_{1-6} alkoxy, carboxyl, C_{1-6} alkoxycarbonyl, straight-chain or branched C_{1-6} alkyl which is substituted by one or more fluorine atoms, hydroxyl, straightchain or branched C_{1-6} alkoxy, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, carboxyl, straight-chain or branched C_{1-8} alkoxycarbonyl, by

trifluoromethyl, hydroxyl, straight-chain or branched C_{1-8} alkoxy, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{C1-4} alkylamino, cyano, straight-chain or branched cyano- C_{1-6} alkyl;

a 2-, 4-, 5- or 6-pyrimidinyl radical, or a 2-, 4-, 5- or 6-pyrimidinyl- C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O) and the 2-, 4-, 5- or 6-pyrimidinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y

wherein Y is a C_{1-6} alkyl, halogen, nitro, amino, mono-C_{1-6} alkylamino, di-C_{1-6} alkylamino, hydroxyl, C_{1-6} alkoxy, benzyloxy, carboxyl, C_{1-6} alkoxycarbonyl, C_{1-6} alkoxycarbonylamino or C_{1-6} alkyl which is mono- or polysubstituted by fluorine, C_{6-10} aryl and C_{6-10} aryl-C_{1-6} alkyl;

a 3-, 4-, 5- or 6-pyridazinyl radical, or a 3-, 4-, 5- or 6pyridazinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 3-, 4-, 5- or 6-pyridazinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 5- or 6-pyrazinyl radical, or a 2-, 3-, 5- or 6-pyrazinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 3-, 5- or 6-pyrazinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 3-, 4-, 5-, 6-, 7-, or 8-cinnolinyl radical, or a 3-, 4-, 5-, 6-, 7-, or 8-cinnolinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-4} alkyl, halogen or oxo (=O), and the 3-, 4-, 5-, 6-, 7-, or 8-cinnolinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, 5-, 6-, 7-, or 8-quinazolinyl radical, or a 2-, 4-, 5-, 6-, 7 or 8-quinazolinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 4-, 5-, 6-, 7-, or 8-quinazolinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 5-, 6-, 7-, or 8-quinoxalinyl radical, or a 2-, 3-, 5-, 6-, 7-, or 8-quinoxalinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 3-, 5-, 6-, 7-, or 8-quinoxalinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 4-, 5-, 6-, 7-, or 8-phthalazinyl radical, or a 1-, 4-, 5-, 6-, 7-, or 8-phthalazinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 4-, 5-, 6-, 7-, or 8-phthalazinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 4-, 5-, 6-, 7- or 8-quinolyl radical, or a 2-, 3-, 4-, 5-, 6-, 7 or 8-quinolyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 3-, 4-, 5-, 6-, 7- or 8-quinolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 3-, 4-, 5-, 6-, 7- or 8-isoquinolyl radical, or a 1-, 3-, 4-, 5-, 6-, 7- or 8-isoquinolyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 4-, 5-, 6-, 7- or 8-isoquinolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 6-, 8- or 9-[9H]-purinyl radical, or a 2-, 6-, 8- or 9-[9H]-purinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 6-, 8- or 9-[9H]-purinyl radical can be unsubstituted or mono- to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 6-, 7- or 8-[7H]-purinyl radical, or a 2-, 6-, 7- or 8-[7H]-purinyl-C_{1-4} alkyl radical, wherein the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 6-, 7- or 8-[7H]-purinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-acridinyl radical, or a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-acridinyl-C_{1-4} alkyl radical, where the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-acridinyl radical can be unsubstituted or mono- to octasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-phenanthridinyl radical, or a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-phenanthridinyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-phenanthridinyl radical can be unsubstituted or mono- or up to octasubstituted by the same or different substituents of Y;

a 2-, 3-, 4-, 5- or 6-pyridyl radical where the 2-, 3-, 4-, 5- or 6pyridyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 4-, 5- or 6-pyridinyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 3-, 4-, 5- or 6-pyridinyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 4- or 5-thienyl radical, or a 2-, 3-, 4- or 5-thienyl- C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 3-, 4- or 5-thienyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, or 5-thiazolyl radical, or a 2-, 4-, or 5-thiazolyl $_{C1}$-6 alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 4-, or 5-thiazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 3-, 4-, or 5-isothiazolyl radical, or a 3-, 4-, or 5-isothiazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 3-, 4-, or 5-isothiazolyl

radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, 5-, 6-, or 7-benzothiazolyl radical, or a 2-, 4-, 5-, 6-, or 7-benzothiazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 4-, 5-, 6-, or 7-benzothiazolyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 4-, or 5-imidazolyl radical, or a 1-, 2-, 4-, or 5 imidazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 2-, 4-, or 5-imidazolyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 3-, 4-, or 5-pyrazolyl radical, or a 1-, 3-, 4- or 5-pyrazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 3-, 4- or 5-pyrazolyl radical can be unsubstituted or mono- or up to trisubstituted by the same of different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, or 5-pyrrolyl radical, or a 1-, 2-, 3-, 4-, or 5-pyrrolyl- C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4- or 5-pyrrolyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 3-, or 5-[1.2.4]-triazolyl radical, or a 1-, 3-, or 5-[1.2.4]-triazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 3-, or 5-[1.2.4]-triazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from Y;

a 1-, 4-, or 5-[1.2.3]-triazolyl radical, or a 1-, 4-, or 5-[1.2.3]-triazolyl- C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_1-6 alkyl, halogen or oxo (=O), and the 1-, 4-, or 5-

[1.2.3]-triazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1- or 5-[1H]-tetrazolyl radical, or a 1-, or 5-[1H]-tetrazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, or 5-[1H]-tetrazolyl radical can be unsubstituted or substituted by hydrogen, or Y;

a 2- or 5-[2H]-tetrazoyl radical, or a 2- or 5-[2H]-tetrazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2- or 5-[2H]-tetrazolyl radical can be unsubstituted or substituted by hydrogen, or Y;

a 2-, 4-, or 6-[1.3.5]-triazinyl radical, or a 2-, 4-, or 6-[1.3.5]-triazinyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 4-, or 6-[1.3.5]-triazinyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, or 5-oxazolyl radical, or a 2-, 4-, or 5-oxazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 2-, 4-, or 5-oxazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 3-, 4-, or 5-isoxazolyl radical, or a 3-, 4-, or 5-isoxazolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 3-, 4-, or 5-isoxazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, 5-, 6- or 7-indolyl radical, or a 1-, 2-, 3-, 4-, 5-, 6 or 7-indolyl-C_{1-6} alkyl radical, wherein the C_{1-6} alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C_{1-6} alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4-, 5-, 6- or 7-indolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y.

4. (Currently Amended) The quinoline derivative of claim 3, wherein in R_4 said C_{1-6} alkyl which is substituted by one or more fluorine atoms is~~said fluorine atoms are~~ trifluoromethyl, and said C_{1-8} alkoxy is methoxy or ethoxy.

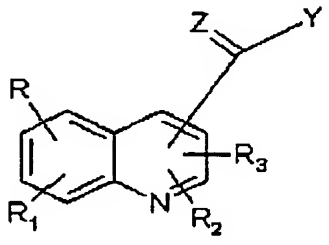
5. (Original) The quinoline derivative of claim 1, wherein R, R_1, R_2, R_3, X, Z, P, Q, n and m have the meanings given above, and R_4 is phenyl which is unsubstituted or substituted by one to five the same or different C_{1-6} alkoxy groups, where adjacent oxygen atoms can also be linked by C_{1-2} alkylene groups.

6. (Original) The quinoline derivative of claim 1, wherein R, R_1, R_2, R_3, X, Z, P, Q, n and m have the meanings given above and R_4 is 3,5-dimethoxyphenyl.

7. (Original) The quinoline derivative of claim 1, wherein R_4 has the meanings given above, R, R_1, R_2, R_3 each is hydrogen, Z is an oxygen atom, X is a nitrogen atom, P and Q are each two hydrogen atoms - as in $-CH_2-$, m is zero, and n is 3.

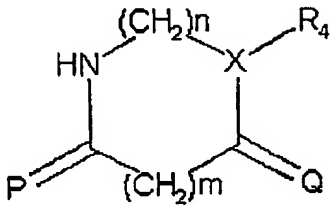
8. (Original) The quinoline derivative of claim 1, wherein R, R_1, R_2, R_3 are each a hydrogen atom, Z is an oxygen atom, X is a nitrogen atom, P and Q each are two hydrogen atoms as in $-CH_2-$, m is zero, n is 3, and R_4 is a 3,5-dimethoxyphenyl radical.

9. (Previously Presented) A process far preparing the quinoline derivative of claim 1, which comprises reacting a quinoline carboxylic acid of formula (2)



(2)

in which R, R_1, R_2, R_3 have the meanings given above, Z is an oxygen or sulfur atom, and Y is a leaving group with an amine of formula (3)



(3)

in which R_4, X, P, Q, m and n have the meanings given above, optionally in the presence of diluents and auxiliaries.

10. (Original) The process of claim 9, wherein said leaving group is halogen, hydroxyl, C_{1-6} alkoxy, -O-tosyl, -O-mesyl, or imidazolyl.

11. (Original) The process of claim 10, wherein said C_{1-6} alkoxy is methoxy or ethoxy.

12. (Canceled)

13. (Previously Presented) A pharmaceutical composition which comprises as active ingredient at least one quinoline derivative according of claim 1, together with a pharmaceutically acceptable carrier.

14. (Previously Presented) The pharmaceutically acceptable acid addition salt of the quinoline derivative of claim 1, when formed with one of the acids hydrochloric acid, hydrobromic acid, sulfuric acid, phosphoric acid, fumaric acid, succinic acid, lactic acid, citric acid, acetic acid, tartaric acid, malic acid, maleic acid, embonic acid, malonic acid, trifluoroacetic acid, methanesulfonic acid, and sulfoacetic acid.

15. (Canceled)

16. (Canceled)

17. (Currently Amended) A method for treating a cancer in a mammal, which comprises administering to a mammal in need thereof an effective amount of a quinoline derivative according to claim 1~~The method of claim 15~~, wherein said cancer is selected from the group consisting of cervical carcinoma, lymphocyte leukemia, breast adenocarcinoma, ovarian adenocarcinoma, and pulmonary carcinoma.

18. (Canceled)

19. (Canceled)

20. (Currently Amended) A method for inhibiting the growth of tumor cells in a mammal, comprising administering to a mammal in need thereof a tumor inhibiting amount of a quinoline derivative according to claim 1~~The method of claim 18~~, wherein said tumor is selected from the group consisting of cervical carcinoma, lymphocyte leukemia, breast adenocarcinoma, ovarian adenocarcinoma, and pulmonary carcinoma.